Bharath Chandra Talluri

Postdoctoral/Visiting fellow
Laboratory of Sensorimotor Research, National Eye Institute
National Institutes of Health, Bethesda, USA

Positions

2021-	Visiting fellow at Laboratory of Sensorimotor Research National Eye Institute, **National Institutes of Health**, Bethesda, USA *with:* Hendrikje Nienborg
2023-26	Fellow at the Center on Compulsive Behaviors [*with fellowship award*] **National Institutes of Health**, Bethesda, USA *Advisors:* Hendrikje Nienborg, Bruno Averbeck
2015-21	Doctoral candidate **University Medical Center Hamburg- Eppendorf**, Germany *Advisor:* Tobias H. Donner
2014-15	Research Intern, Cognitive Neuroscience unit **German Primate Center, Goettingen**, Germany *Advisors:* Suresh Krishna, Stefan Treue
2012-13	Research Assistant, Institute of Perception, Action & Behaviour **University of Edinburgh**, UK *Advisor:* Robert Fisher
2011	Research Intern, School of Informatics **University of Edinburgh**, UK *Advisor:* Robert Fisher

Education

2015-21	Ph.D. *summa cum laude* **University of Hamburg**, Germany
2012-13	M.Sc. in Cognitive Science **University of Edinburgh**, UK
2008-12	B.Tech. in Electrical Engineering **Indian Institute of Technology (I.I.T) Roorkee**, India

Training & Workshops

2025	**10 questions for NHP Systems Neuroscience** Carnegie Mellon University, USA
2025	**Neuropixels Training Course** John's Hopkins University, USA
2024	**Computational Neuroscience of Vision summer course** Cold Spring Harbor Laboratory, USA
2019	**Neurohackademy summer course** University of Washington in Seattle, USA
2015	**Computational approaches to Memory and Plasticity summer course** National Center for Biological Sciences at Bengaluru, India

Grants

2023-26	Postdoctoral Fellowship [$30000 per year] Center on Compulsive Behaviors, National Institutes of Health, USA
2019-20	Postdoc transition grant Deanery for Research, University Medical Center Hamburg-Eppendorf, Germany
2016	Travel grant [research visit to Berlin Center for Advanced Neuroimaging] Boehringer Ingelheim Fonds foundation for basic research in medicine

Awards & Honors

2026	Trainee Professional Development Award, Society for Neuroscience
2026	Best Science Prize, Science slam at Baltimore Underground Science Space
2024	Director's award for Administrative/Technical excellence, National Eye Institute
2023	Trainee Professional Development Award, Society for Neuroscience
2022	Second place, Three Minute Talk (TmT) competition, National Eye Institute
2019	People's Choice award, Three Minute Thesis (3MT) competition, Hamburg Research Academy
2019	Travel award from eScience Institute, University of Washington in Seattle
2018	Travel award from German Neuroscience Society
2010-11	Student Affairs Council award, I.I.T Roorkee
2009-10	Merit-cum-Means scholarship, I.I.T Roorkee
2008-12	A.P.P. Meritorious scholarship, India
2008-09	T.I.M.E scholarship for best performance in entrance examination, India
2008	All India Rank 965 (99.7 percentile), Indian Institutes of Technology Joint Entrance Examination

Research

Preprints

- Thothathri, S., **Talluri, B. C.**, Shushruth, S., Shadlen, M.N., Nienborg, H. (2026). Decoupling choice from motor response reduces choice-history effects. *bioRxiv*. 2026.07.02.736214.
- Linton, P., Heeger, D., Movshon, T., Muckli, L., Nienborg, H., Papale, P., Parker, A., Petro, L., Roelfsema, P., **Talluri, B. C.**, Vetter, P., Xue, C., Zhaoping, L., Kriegeskorte, N. (2024). Is V1 a Cognitive Map? OSF preprints. *doi: 10.31219/osf.io/guf93*.

Journal Articles

- Park, H.*, Arazi, A.*, **Talluri, B. C.***, Celotto, M., Panzeri, S., Stocker, A. A., Donner, T. H. (2025). Confirmation bias through selective readout of information encoded in human parietal cortex. *Nature Communications*. 16, 5391.
- Kang, I.*, **Talluri, B. C.***, Yates, J. L., Niell, C. M., Nienborg, H. (2025). Is the impact of spontaneous movements on early visual cortex species specific? *Trends in Neurosciences*. 48(1), 7-21.
- **Talluri, B. C.***, Kang, I.*, Lazere, A., Quinn, K. R., Kaliss, N., Yates, J. L., Butts, D. A., Nienborg, H. (2023). Activity in primate visual cortex is minimally driven by spontaneous movements. *Nature Neuroscience*. 26(11), 1953-1959.
- **Talluri, B. C.**, Urai, A. E., Bronfman, Z. Z., Brezis, N., Tsetsos, K., Usher, M., Donner, T. H. (2021). Choices change the temporal weighting of decision evidence. *Journal of Neurophysiology*. 125(4), 1468-1481.
- **Talluri, B. C.***, Urai, A. E.*, Tsetsos, K., Usher, M., Donner, T. H. (2018). Confirmation bias through selective overweighting of choice-consistent evidence. *Current Biology*. 28(19), 3128-3135.

- **Talluri, B. C.**, Hung, S.-C., Seitz A. R., Seriès, P. (2015). Confidence-based integrated reweighting model of task-difficulty explains location-based specificity in perceptual learning. *Journal of Vision*. 15(10):17, 1-12.

Commentaries

- **Talluri, B. C.**, Nienborg, H. (2024). Decisions: Tracking the evolution of a single choice. *eLife*. 13, e103059.
- **Talluri, B. C.**, Braun, A, Donner, T. H. (2021). Decision making: How the past guides the future in frontal cortex. *Current Biology*. 31(6), R303-R306.
- **Talluri, B. C.**, Urai, A. E., Donner, T. H. (2019). Our own choices generate biases for subsequent decisions. *The Science Breaker*.

Selected Conference Abstracts

- **Talluri, B. C.***, Kang, I.*, Yates, J. L., Butts, D. A., Nienborg, H. (2025). Pronounced modulation of activity in primate early visual cortex by internal state. *Annual Meeting of the Vision Sciences Society*.
- Thothathri, S., **Talluri, B. C.**, Shushruth, S., Shadlen, M.N., Nienborg, H. (2024). Decoupling choice from motor response reduces choice-history effects. Program No. 281.24. *Chicago, IL. : Society for Neuroscience*.
- Arazi, A., Park, H., **Talluri, B. C.**, Stocker, A., Donner, T. H. (2023). Representation of a continuous decision variable in human extrastriate visual cortex. Program No. 413.15. *Washington, D.C.: Society for Neuroscience*.
- **Talluri, B. C.***, Kang, I.*, Lazere, A., Quinn, K. R., Kaliss, N., Yates, J. L., Butts, D. A., Nienborg, H. (2023). Do spontaneous movements drive activity in the primate visual cortex? *Cosyne* [contributed talk; top 3.2% of submitted abstracts].
- Hall, H., Hassan, M.H.M.O., Verma, A., Dutta, B., Pattisapu, S., Sharma, V., **Talluri, B. C.** (2022). Asymmetric functional connectivity is not specific to reward-related task activity in OFC. *Neuromatch Conference*.
- Wimmer, K., **Talluri, B. C.**, Donner. T., Roxin, A., Esnaola-Acebes, J. M. (2022). Neural network mechanisms underlying post-decision biases. *Cosyne*.
- **Talluri, B. C.***, Urai, A. E.*, Tsetsos, K., Usher, M., Donner, T. H. (2018). Confirmation bias in continuous decisions: Giving more weight to choice-consistent evidence. *FENS Forum*.
- Rudiger, P., Stevens, J.-L., **Talluri, B. C.**, Perrinet, L., Bednar, J. (2014). Relationship between natural image statistics and lateral connectivity in the primary visual cortex. *Cosyne*.

* equal contribution

Selected Talks

2025 Annual Meeting of the Vision Sciences Society (VSS), St. Pete Beach, Florida
2024 CCN Seminar, University Medical Center Hamburg- Eppendorf
2024 Cognitive & Systems Neuroscience group, Swammerdam Institute for Life Sciences
2023 Computational and Systems Neuroscience (Cosyne) meeting, Montreal
2021 Symposium on Computational Neuroscience, University of Osnabrueck
2020 Seriès lab, School of Informatics, University of Edinburgh
2020 Laboratory of Sensorimotor Research, National Eye Institute, NIH
2020 Monsoon Brain Meeting, India
2019 Gold Lab, University of Pennsylvania, Philadelphia
2019 Garrett group, Max Planck Institute for Human Development, Berlin
2018 de la Rocha lab, August Pi i Sunyer Biomedical Research Institute (IDIBAPS), Barcelona
2015 Forstmann lab, University of Amsterdam

Mentoring

Postbacc Researchers

2026	Jennifer Hu
2023-26	Sreeram Thothadri (now MD student ar University of Washington at Seattle)
2022	Leya Luo (now graduate student at University of California Los Angeles)

Summer Interns

2021	Jonel Morris (now PhD candidate at University of Florida)

Volunteer Mentoring

2026	Professional development mentor at Neuromatch Academy
2024-26	Program for Advancing the Health Sciences (PATHS), Prince George County Public Schools
2022, 25	Project mentor at Neuromatch Academy

Teaching

2024 & 26	Lecturer at Summer Vision Course, National Eye Institute
2022-23	Journal club leader, NIH summer journal club

Organisational Roles

2022-24	Member of LSR Fellows council, NIH
2022	Member of Organising Committee, National Eye Institute's annual Focus on Fellows event
2012	Departmental Convener at Cognizance, the annual technical festival of I.I.T Roorkee
2011-12	Member in the Board of studies, I.I.T Roorkee
2011-12	Secretary, Himalayan Explorers' Club, I.I.T Roorkee

Professional Service

Reviewer	Nature Reviews Neuroscience, PLoS Biology, PLoS Computational Biology, Cognition, Journal of Vision [*exceptional review*], Scientific Reports, PLoS One, Cosyne abstracts, CCN abstracts
Co-reviewer	Nature Neuroscience, Current Biology, eLife

Non-Academic achievements

2012	Black belt (first dan), awarded by World Taekwondo Federation
2010	Award of Excellence, Himalayan Explorers' Club, I.I.T Roorkee

Last updated: October 15, 2026